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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/841,156	156 04/25/2001		Shunpei Yamazaki	12732-033001	4159
26171	7590	03/09/2005		EXAMINER	
FISH & RIG	CHARDS	SON P.C.	KIELIN, ERIK J		
1425 K STR	EET, N.W	1.			
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WASHINGT	ON, DC	20005-3500	2813		
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
			YAMAZAKI ET AL.				
	Office Action Summary	09/841,156 Examiner	Art Unit				
	•	Erik Kielin	2813				
7	The MAILING DATE of this communication a						
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ R	esponsive to communication(s) filed on 16	December 2004.					
<i>'</i> —	· · _ _	is action is non-final.					
· —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
Cl	osed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4:	53 O.G. 213.				
Disposition of Claims							
4a 5)⊠ C 6)⊠ C 7)⊠ C	Claim(s) 9-12,14,17,19,20 and 23-52 is/are pending in the application. 4a) Of the above claim(s) 23-45 is/are withdrawn from consideration. Claim(s) 9 is/are allowed. Claim(s) 10-12,14,17,19,20 and 47-52 is/are rejected. Claim(s) 46 is/are objected to. Claim(s) are subject to restriction and/or election requirement.						
Application	ı Papers						
9)∐ Th	e specification is objected to by the Exami	ner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
A	oplicant may not request that any objection to the	e drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
·							
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)						
2) Notice of 3) Information	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) tion Disclosure Statement(s) (PTO-1449 or PTO/SB/Co(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

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DETAILED ACTION

This action responds to the Amendment filed 16 December 2004.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over JP 11-345688 (Takaku) in view of US 5,276,999 (Bando) and US 6,392,340 B2 (Yoneda et al.).

Regarding claim 10, **Takaku** forming a plurality of light emitting elements 24, at the front surface of a substrate 1, the substrate being formed of, *inter alia*, glass or polymeric material (Fig. 6; paragraphs [0023] and [0044]); and

bonding a color filter 4, 5, made from a transparent substrate 5 with color filter layers/elements 4 thereon, wherein at the back surface of the substrate 1.

Takaku does not indicate that there are a plurality of thin film transistors electrically connected to the light-emitting devices.

Yoneda teaches a OLED display and is therefore drawn to the same endeavor as is

Takaku. Yoneda teaches that is known in the art for each light-emitting element to be
electrically connected to a thin film transistor TFT (col. 1, lines 14-43).

It would have been obvious for one of ordinary skill in the art, at the time of the invention to electrically connect a TFT to each of the light-emitting devices of **Takaku**, as taught by

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Yoneda, in order to have independent control over each device and thereby form a more efficient, effective display.

Then the only difference is that **Takaku** does not indicate if the backside of the first substrate is chemically-mechanically polished.

Bando teaches chemical mechanical polishing of substrates (col. 5, lines 25-30), for the high flatness required of displays. (See col. 1, lines 6-12.)

It would have been obvious for one of ordinary skill in the art, at the time of the invention to polish the substrate, both front and back, of **Takaku** because **Bando** teaches that high flatness is required for light-emitting displays, such as that in **Takaku**.

3. Claims 11, 14 and 12, 19 and 47, 48 and 50, 51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takaku in view of US 4,963,788 (King et al.)

The prior art of **Takaku**, as explained above, discloses each of the claimed features except for bonding a polarization plate (claims 11 and 12) or anti-reflective film (claims 47 and 50) to the transparent substrate of the color filter.

King discloses a thin film electroluminescent display and is therefore drawn to the same endeavor as is **Takaku**. King teaches that contrast can be improved by providing a polarizer or antireflective coating on the viewer's side surface (i.e. the front side surface) of the display --in spite of the attenuation in luminescence (King col. 1, lines 28-42 and especially col. 5, lines 9-17).

It would have been obvious for one of ordinary skill in the art, at the time of the invention to bond an antireflective coating or polarizer to the front surface of the **Takaku** display --i.e. the transparent substrate 5 of the color filter-- in order to improve the contrast, as taught by **King**.

4. Claims 47, 48, and 50, 51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takaku in view of US 6,476,783 B2 (Matthies et al.).

Regarding claims 47 and 50, the prior art of **Takaku**, as explained above, discloses each of the claimed features except for bonding an antireflection film to the transparent substrate.

Matthies teaches a method of improving contrast to a OLED and is therefore drawn to the same endeavor as is Takaku. Matthies teaches that the viewer's side surface of the display (i.e. the direction through which the emitted light exits) is always subject to specular reflectance. Matthies teaches one solution to the problem is to bond an antireflective coating on the viewer's side surface (Matthies, paragraph bridging cols. 9-10).

It would have been obvious for one of ordinary skill in the art, at the time of the invention to bond an antireflective coating to the viewer's side surface of the **Takaku** display --i.e. the transparent substrate 5 of the color filter-- in order to remove specular reflectance and thereby improve the contrast, as taught by **Matthies**.

5. Claims 17 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Takaku in view of King as applied to claims 11 and 12, respectively, and further in view of

Bando.

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The prior art of **Takaku** in view of **King**, as explained above, discloses each of the claimed features except for chemically mechanically polishing the first substrate.

Bando teaches chemical mechanical polishing of substrates (col. 5, lines 25-30), for the high flatness required of displays. (See col. 1, lines 6-12.)

It would have been obvious for one of ordinary skill in the art, at the time of the invention to polish the substrate, both front and back, of **Takaku** because **Bando** teaches that high flatness is required for light-emitting displays, such as that in **Takaku**.

6. Claims 49 and 52 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Takaku in view of Matthies as applied to claims 47 and 50, respectively, and further in view of

Bando.

The prior art of **Takaku** in view of **Matthies**, as explained above, discloses each of the claimed features except for chemically mechanically polishing the first substrate.

Bando teaches chemical mechanical polishing of substrates (col. 5, lines 25-30), for the high flatness required of displays. (See col. 1, lines 6-12.)

It would have been obvious for one of ordinary skill in the art, at the time of the invention to polish the substrate, both front and back, of **Takaku** because **Bando** teaches that high flatness is required for light-emitting displays, such as that in **Takaku**.

Allowable Subject Matter

7. Claim 9 is allowed.

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8. Claim 46 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims and including the change noted above in the objection.

9. The following is a statement of reasons for the indication of allowable subject matter: The prior art does not teach or suggest, in combination with the other claimed limitations, polishing the substrate to a specific thickness of less than 300 µm in order to gain "improving directivity of light" as stated in the instant specification at p. 11, lines 17-22.

Response to Arguments

10. Applicant's arguments filed 16 December 2004 have been fully considered but they are not persuasive.

Applicant's arguments are premised on the combination of Takaku and King failing to teach the method step of bonding. Examiner respectfully disagrees. The fact that the polarizer and anti-reflective films are shown bonded to the substrates is proof that there exists a bonding step. Regardless of the manner in which the anti-reflective and polarizing films are applied, the films are in fact bonded to the substrate and therefore read on the claims, as presently written. In regard to claim scope, it has been held that "The name of the game is the claim." *In re Hiniker Co.*, 47 USPQ2d 1523, 1529 (Fed. Cir. 1998)." Words are given there ordinary meaning absent the specification specifically and clearly defining the word. Exemplifications are not definitions. Accordingly, the argument is not persuasive.

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Conclusion

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erik Kielin whose telephone number is 571-272-1693. The examiner can normally be reached from 9:00 - 19:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, Jr. can be reached on 571-272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Erik Kielin

Primary Examiner

March 5, 2005